

## Scheme - I

### Sample Question Paper

**Program Name** : Diploma in Textile Manufactures  
**Program Code** : TX  
**Semester** : Fifth  
**Course Title** : Fabric and Garment Testing  
**Max. Marks** : 70

**22582**

**Time: 3 Hrs.**

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#### **Instructions:**

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

#### **Q.1 Attempt any FIVE of the following.**

**10 Marks**

- a. State any two reasons for fabric sampling.
- b. Define Bending length.
- c. State any four factors responsible for wear of fabric
- d. Define air permeability.
- e. State any four reasons for carrying out fabric tensile strength testing.
- f. Explain the term crimp percentage
- g. State the types of grey scales used in fabric fastness testing.

#### **Q.2 Attempt any THREE of the following.**

**12 Marks**

- a. Calculate Cover factor of fabric having following specification-  
Warp Count- 40 Ne , Weft Count-40 Ne , EPI-62, PPI- 68
- b. Describe the procedure for measurement of fabric weight.
- c. Describe the procedure for measurement of fabric stiffness.
- d. Identify four textile material from following State having good crease recovery and arrange them in order of diminishing crease recovery  
Cotton, Flax, Viscose , Silk , Polyester, Nylon, Wool,

#### **Q.3) Attempt any THREE of the following.**

**12 Marks**

- a. State types of abrasion. Describe the procedure for measurement of abrasion resistance

of fabric.

- b. Describe the test procedure for measurement of pill resistance of fabric
- c. Describe the procedure for measurement of water absorbency of fabric. State significance of this test.
- d. The average rate of air flow of a fabric is 21 Cubic Centimeter / Second. The test area is 1 square inch. Calculate it's air permeability

**Q.4) Attempt any THREE of the following.**

**12 Marks**

- a) Describe the procedure for sample preparation of strip test , grab test
- b) Describe the procedure for measurement of tear resistance of fabric
- c) Explain the factors affecting on tear strength of fabric
- d) Describe the procedure for measurement of shrinkage of fabric
- e) Describe the procedure for measurement colour fastness to rubbing

**Q.5) Attempt any TWO of the following.**

**12 Marks**

- a) Describe the procedure for sampling fabric from a roll for testing fabric properties
- b) Describe the relation between elastic recovery and crease recovery. Suggest any one method used for improvement of crease recovery.
- c) State reasons and remedies of pill formation on fabric surface.

**Q.6) Attempt any TWO of the following.**

**12 Marks**

- a. Compare water proof fabric with water repellent fabric.
- b. Explain the significance of bursting strength test.
- c. Explain the test procedure for testing buttons and fusible interlining

## Scheme - I

### Sample Test Paper – I

**Program Name** : Diploma in Textile Manufactures

**Program Code** : TX

**Semester** : Fifth

**Course Title** : Fabric and Garment Testing

**Max. Marks** : 20

**22582**

**Time: 1 Hour.**

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#### **Instructions:**

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

#### **Q.1 Attempt any FOUR.**

**08 Marks**

- a. Define random sampling
- b. State any two precautions to be taken during fabric thickness testing
- c. State formula of Cloth cover factor
- d. Define bending length
- e. Define Drape
- f. State any two reasons for pill formation on surface of fabric

#### **Q.2 Attempt any THREE.**

**12 Marks**

- a. Describe the procedure for measurement of fabric weight
- b. Explain the effect of crimp on fabric elongation and cost of fabric.
- c. Describe the procedure for measurement of flexural rigidity of fabric
- d. Describe the procedure for measurement of pill resistance of fabric
- e. State any four factors affecting abrasion resistance test

## Scheme - I

### Sample Test Paper - II

**Program Name** : Diploma in Textile Manufactures

**Program Code** : TX

**Semester** : Fifth

**Course Title** : Fabric and Garment Testing

**Max. Marks** : 20

**22582**

**Time: 1 Hour.**

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#### **Instructions:**

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

#### **Q.1 Attempt any FOUR.**

**08 Marks**

- a. Define air porosity of fabric
- b. Define Thermal Insulation Value of fabric.
- c. State sample size of grab test
- d. State any two types of fabric shrinkage
- e. State types of grey scales used in color fastness testing
- f. State formula of seam strength

#### **Q.2 Attempt any THREE.**

**12 Marks**

- a. Describe the test procedure for measurement of air permeability
- b. Compare water proof fabric with water repellent fabric
- c. Explain the theory of water proofness of fabrics..
- d. Explain the test procedure for measurement of tear strength of fabric. State any two significance of tear strength test.
- e. Explain the test procedure for testing dimensional stability of fabric.